

**RADIOCHEMISTRY TECHNICIAN
JOB PERFORMANCE MEASURE****TASK CODE:** TRC-H02**TASK:** Prepare a Sample for Counting Using Coprecipitation**NAME:** _____ **SSN:** _____

REFERENCES:

1. WP 12-RL1013, Sample Mounting
2. WP 12-RL1001, Sample Tracking and Custody
3. WP 12-RL1400, Radiochemistry Laboratory Waste Management
4. CF-412, Sample Counting Preparation Techniques

TERMINAL OBJECTIVE:

Given a sample requiring coprecipitation, prepare and mount the sample per WP 12-RL1013.

CONSEQUENCES OF INADEQUATE PERFORMANCE:Improper analysis results
Loss of a sample

HAZARDS (PERSONNEL/EQUIPMENT STATUS):

None

PRE-REQUISITE TRAINING/ TASK COMPLETION:

1. CF 4.00 Series
2. TRC-G03, Perform Elemental Separation of a Transuranic Product

TOOLS/EQUIPMENT (MATERIALS REQUIRED):

- | | |
|---------------------------|--------------------|
| 1. 25 mm vacuum apparatus | 3. Planchets/discs |
| 2. Prepared reagents | 4. Filters |

Instructions to Trainee: You shall acquire the necessary references and equipment, and complete all required documentation. Knowledge requirements shall be completed with 80% or greater accuracy. Critical step performance shall be completed with 100% accuracy.

Instructions to JPM Evaluator: The trainee is to perform the terminal objective, without assistance, on the job site. Provide clarification of requirements if requested by the trainee. You are encouraged to ask relevant questions to verify trainee understanding. If the trainee fails this JPM, clearly document the reason for failure and forward to the trainee's manager. Successful completion of this JPM shall be recorded on the trainee's qualification card.

KNOWLEDGE REQUIREMENTS:

Reference	Knowledge Requirement	Pass/Fail
1	State which samples require analysis via alpha spectroscopy.	
4	State the definition of coprecipitation.	
1	Describe the basic process of coprecipitation.	
1	State the required equipment and materials to perform coprecipitation.	
1	State the procedural precautions, limitations and prerequisites.	
1	Discuss the required reagents for coprecipitation.	
3	State how the waste should be handled after coprecipitation.	
1	Describe the information required to be documented in the Radiochemistry Logbook.	
1	Describe how the sample has been prepared prior to sample mounting.	
2	State the documentation requirements concerning chain of custody.	

PERFORMANCE REQUIREMENTS:

Reference	Performance Requirement	Pass/Fail
1	Prepare a sample for coprecipitation.#	
1	Setup 25 mm vacuum apparatus.#	
1	Perform coprecipitation.#	
3	Discard waste products in proper locations .#	

1	Prepare coprecipitation filter for counting.#	
Reference	Performance Requirement	Pass/Fail
1	Document sample information in Radiochemistry Logbook.#	
2	Transfer custody of sample to the Counting Room.#	

indicates a critical step

FINAL EVALUATION:

PASS

FAIL

COMMENTS:

EVALUATOR SIGNATURE:

DATE:_____

TRAINEE SIGNATURE:

DATE:_____

MANAGER SIGNATURE:

DATE:_____